

AMENDMENT UNDER 37 C.F.R. § 1.116
U.S. Application No. 10/656,813

Q77384

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A liquid ejection method of ejecting liquid from a moveable ejection head onto a medium, said method comprising the steps of:
detecting a position of an ~~end edge~~ of said medium ~~in a main scanning direction, wherein~~
said edge is substantially perpendicular to a main scanning direction; and
changing, according to a feed amount of said medium fed after said position of the ~~end~~
edge of said medium has been detected, at least either a starting position or a terminating position, in a main-scanning direction, for ejecting said liquid from said ejection head being moved,
wherein said main-scanning direction is a direction in which the moveable ejection head travels.
2. (previously presented): A liquid ejection method according to claim 1, wherein:
said ejection head starts liquid ejection at said starting position and terminates liquid ejection at said terminating position; and
the greater said feed amount is, the further the start of liquid ejection is advanced or the further the termination of liquid ejection is delayed in the main-scanning direction.

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3. (original): A liquid ejection method according to claim 2, wherein said start of liquid ejection is advanced or said termination of liquid ejection is delayed in proportion to a magnitude of said feed amount.

4. (currently amended): A liquid ejection method according to claim 1, wherein at least wither said starting position or said terminating position, in the main-scanning direction, for ejecting said liquid from said ejection head being moved is changed according to said feed amount of said medium fed after said position of the ~~end-edge~~ of said medium has been detected, and
a predicted maximum skew angle of said medium.

5. (original): A liquid ejection method according to claim 1, wherein said liquid is ejected targeting on an entire surface of said medium.

6. (currently amended): A liquid ejection method according to claim 1 wherein:
said position of the ~~end-edge~~ of said medium is detected by a sensor;
said sensor includes
a light emitting section for emitting light, and
a light receiving sensor for receiving said light that moves in a main-scanning direction in accordance with a movement of said sensor in the main-scanning direction;
and

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said position of the end of said medium is detected according to a change in an output value of said light receiving sensor that is caused by a passing of said light, which has been emitted from said light emitting section moving in said main-scanning direction, across said ~~end~~ edge of said medium.

7. (currently amended): A liquid ejection method according to claim 6, wherein:
each position of two ~~ends~~ edges of said medium that differ in position in the main-scanning direction is detected according to a change in output values of said light receiving sensor that is caused by passing of said light, which has been emitted from said light emitting section moving in said main-scanning direction across each of said two ~~ends~~ edges of said medium;
said starting position is changed in accordance with the position of one of said two ~~ends~~ edges having been detected; and
said terminating position is changed in accordance with the position of the other one of said two ~~ends~~ edges having been detected.

8. (currently amended): A liquid ejection method according to claim 1, wherein:
said position of the ~~end~~ edge of said medium is detected by a sensor;
said sensor is provided in/on a moveable moving member that comprises said ejection head; and
said sensor includes

a light emitting section for emitting light, and

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a light receiving sensor for receiving said light that moves in a main-scanning direction in accordance with a movement of said sensor in the main-scanning direction.

9. (currently amended): A liquid ejection method according to claim 8, wherein:
while making said moving member move in the main-scanning direction,

said position of the ~~end~~edge of said medium is detected according to a change in an output value of said light receiving sensor that is caused by passing of said light, which has been emitted from said light emitting section moving in said main-scanning direction, across said ~~end~~edge of said medium, and

said liquid is ejected from said ejection head onto said medium.

10. (original): A liquid ejection method according to claim 1, wherein:

said liquid is ink; and

printing is carried out on a print medium, which is said medium, by ejecting said ink from said ejection head.

11. (currently amended): A liquid ejecting apparatus comprising:

an ejection head, moveable in a main-scanning direction, for ejecting liquid;

a feed mechanism for feeding a medium in a sub-scanning direction, perpendicular to said main-scanning direction; and

a sensor for detecting a position of an ~~end~~edge of said medium ~~in said main-scanning direction~~, wherein said edge is substantially perpendicular to a main scanning direction,

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wherein at least either a starting position or a terminating position, in said main-scanning direction, for ejecting said liquid from said ejection head being moved is changed according to a feed amount of said medium fed by said feed mechanism after said position of the ~~end~~edge of said medium has been detected by said sensor.